



OTECH

Endpoint Minimum Specifications

Updated Feb 13, 2024



MINIMUM - Standard User	Desktop¹	Laptop²	Tablet
Processor	12th Gen Intel® Core™ i7 processor or newer	12th Gen Intel® Core™ i7 processor or newer	12th Gen Intel® Core™ i5-1235U processor
Operating System	Windows 11 Pro	Windows 11 Pro	Windows 11 Pro
Graphics	Integrated Intel® UHD Graphics 770	Integrated Intel® UHD Graphics 770	Intel® Iris® Xe Graphics
Memory	16GB DDR4 3200	16GB DDR4 3200	8GB, 16GB, 32GB (LPDDR5 RAM)
Storage	512 GB SSD	512 GB SSD	Removable drive (SSD) options: 128GB, 256GB
Audio	Built in speaker and microphone	Built in speaker and microphone	2W stereo speakers with Dolby® Atmos® Dual far field studio microphones
Camera	Full HD 1080P 2 MP or higher webcam OR built in with monitor	Full HD 1080P 2 MP or higher webcam OR built in with monitor	Windows Hello face authentication camera (front-facing) Front-facing camera with 1080p full HD video 10.0MP rear-facing autofocus camera with 1080p HD and 4k video
Display	Dual 24" (1920x1080)	15" (1920x1080)	Screen: 13" PixelSense™ Flow Display Resolution: 2880 X 1920 (267 PPI)

¹ REQUIRED - UPS which stands for Uninterruptible Power Supply is a device that provides backup power to electrical systems during power outages or fluctuations. It helps to ensure uninterrupted operation and protect sensitive equipment from potential damage.

² OPTIONAL - Laptop bag or backpack for portability and protection from damage.



OTECH

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			<p>Color profile: sRGB and Vivid</p> <p>Refresh rate up to 120Hz (Dynamic refresh rate supported)</p> <p>Aspect ratio: 3:2</p> <p>Contrast ratio: 1200:1</p> <p>Adaptive Color</p> <p>Auto Color Management supported</p> <p>Touch: 10-point multi-touch</p> <p>Dolby Vision IQ™ support</p> <p>17 Gorilla® Glass 5</p>
Mouse	USB Optical Mouse	TrackPad or USB Optical Mouse	Touchscreen
I/O Ports	<p>USB - including 2 USB-A 2.0, 3 USB-A 3.2, 2 USB-C®</p> <p>Thunderbolt 4</p> <p>Headphone / mic combo</p> <p>2 HDMI 2.1 supporting resolution up to 4K@60Hz</p> <p>2 DisplayPort</p> <p>Gigabit Ethernet (RJ45)</p>	<p>USB - including 2 USB-A 3.2, 2 USB-C®</p> <p>Thunderbolt 4</p> <p>Headphone / mic combo</p> <p>1 HDMI 2.1 supporting resolution up to 4K@60Hz</p> <p>Gigabit Ethernet (RJ45)</p> <p>Thunderbolt Dock or USB-C® 3.2 Dock</p>	<p>2 x USB-C® with USB 4.0/Thunderbolt™ 4</p>
Smart Card Reader	Integrated	Integrated	USB-C Smart Card reader adapter
Connectivity	802.11ac + Bluetooth Integrated 1GB Ethernet	802.11ac + Bluetooth Integrated 1GB Ethernet	Wi-Fi 6E: 802.11ax compatible Bluetooth® Wireless 5.1 technology
Security	<p>TPM 2.0 chip</p> <p>BIOS-based Smart USB Protection</p>	<p>Discrete Trusted Platform Module (dTPM) 2.0</p> <p>Firmware shield</p>	<p>Firmware TPM 2.0</p> <p>Windows Hello face sign-in</p>



OTECH

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Updated Feb 13, 2024



	AMD Memory Guard Kensington lock	PrivacyGuard with ePrivacy certification on display option Webcam privacy shutter Kensington Nano Security Slot™	
Warranty	3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED	3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED	3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED
TAA Compliant ³	Yes	Yes	Yes
Software	Microsoft Office Pro Adobe Acrobat Standard or Pro	Microsoft Office Pro Adobe Acrobat Standard or Pro	Microsoft Office Pro Adobe Acrobat Standard or Pro

MINIMUM - Power User	Desktop⁴	Laptop⁵	Tablet
Processor	12th Gen Intel® Core™ i9 processor or newer	12th Gen Intel® Core™ i9 processor or newer	12th Gen Intel® Core™ i7-1255U processor
Operating System	Windows 11 Pro	Windows 11 Pro	Windows 11 Pro
Graphics	Integrated Intel® UHD Graphics 770	Integrated Intel® UHD Graphics 770	Microsoft SQ® 3 Adreno™ 8CX Gen 3

³ For TAA compliance, a product must either be made in the United States or a designated country, or it must have undergone a significant change in form, fit, or function in one of these countries. This process, known as substantial transformation, can be demonstrated by showing that at least 50% of production occurred in a TAA-approved country, or that the changes made in one of these countries were essential to the end product's purpose and function.

⁴ REQUIRED - UPS which stands for Uninterruptible Power Supply is a device that provides backup power to electrical systems during power outages or fluctuations. It helps to ensure uninterrupted operation and protect sensitive equipment from potential damage.

⁵ OPTIONAL - Laptop bag or backpack for portability and protection from damage.



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Updated Feb 13, 2024



Memory	32GB DDR4 3200	32GB DDR4 3200 OR 32 GB LPDDR5	8GB or 16GB LPDDR4x RAM
Storage	512 GB SSD or more	512 GB SSD or more	Removable drive (SSD) options: 512GB, 1TB
Audio	Built in speaker and microphone	Built in speaker and microphone	2W stereo speakers with Dolby® Atmos® Windows Studio Effects with Voice Focus Dual far field studio microphones
Camera	Full HD 1080P 2 MP or higher webcam OR built in with monitor	Full HD 1080P 2 MP or higher webcam OR built in with monitor	Windows Hello face authentication camera (front-facing) Front-facing camera with 1080p full HD video 10.0 MP rear-facing autofocus camera with 1080p HD and 4k video Windows Studio Effects with Eye Contact, Portrait Background Blur and Automatic Framing
Display	Dual 24" (1920x1080)	15" (1920x1080)	Screen: 13" PixelSense™ Flow Display Resolution: 2880 X 1920 (267 PPI) Color profile: sRGB and Vivid Dynamic refresh rate up to 120Hz Aspect ratio: 3:2 Contrast ratio: 1200:1 Adaptive Color Touch: 10-point multi-touch Gorilla® Glass 5
Mouse	USB Optical Mouse	TrackPad or USB Optical Mouse	Touchscreen
I/O Ports	USB - including 2 USB-A 2.0, 3 USB-A 3.2, 2 USB-C®	USB - including 2 USB-A 3.2, 2 USB-C® Thunderbolt 4	2 x USB-C® with USB 4.0/ Thunderbolt™ 4



OTECH

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Updated Feb 13, 2024



	<p>Thunderbolt 4</p> <p>Headphone / mic combo</p> <p>2 HDMI 2.1 supporting resolution up to 4K@60Hz</p> <p>2 DisplayPort</p> <p>Gigabit Ethernet (RJ45)</p>	<p>Headphone / mic combo</p> <p>1 HDMI 2.1 supporting resolution up to 4K@60Hz</p> <p>Gigabit Ethernet (RJ45)</p> <p>Thunderbolt Dock or USB-C® 3.2 Dock</p>	<p>1 x nano SIM</p>
Smart Card	Integrated	Integrated	USB-C Smart Card reader adapter
Connectivity	<p>802.11ac + Bluetooth</p> <p>Integrated 1GB Ethernet</p>	<p>802.11ac + Bluetooth</p> <p>Integrated 1GB Ethernet</p>	<p>Wi-Fi 6E: 802.11ax compatible</p> <p>Bluetooth® Wireless 5.1 technology</p> <p>Location: GPS, Glonass, Galileo and Beidou Support</p> <p>NanoSIM and eSIM support</p> <p>Supports 5G</p>
Security	<p>TPM 2.0 chip</p> <p>BIOS-based Smart USB Protection</p> <p>AMD Memory Guard</p> <p>Kensington lock</p>	<p>Discrete Trusted Platform Module (dTPM) 2.0</p> <p>Firmware shield</p> <p>PrivacyGuard with ePrivacy certification on display option</p> <p>Webcam privacy shutter</p> <p>Kensington Nano Security Slot™</p>	<p>Enhanced security with Microsoft Pluton</p> <p>Windows Hello face sign-in</p>
Warranty	<p>3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED</p>	<p>3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED</p>	<p>3 or 4 year Onsite or Depot Warranty Coverage - REQUIRED</p>



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TAA Compliant ⁶	Yes	Yes	Yes
Software	Microsoft Office Pro Adobe Acrobat Standard or Pro	Microsoft Office Pro Adobe Acrobat Standard or Pro	Microsoft Office Pro Adobe Acrobat Standard or Pro

⁶ For TAA compliance, a product must either be made in the United States or a designated country, or it must have undergone a significant change in form, fit, or function in one of these countries. This process, known as substantial transformation, can be demonstrated by showing that at least 50% of production occurred in a TAA-approved country, or that the changes made in one of these countries were essential to the end product's purpose and function.